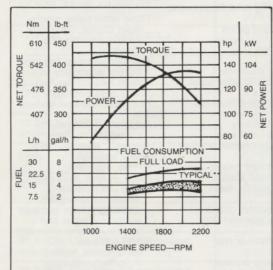


# **624E LOADER WITH COUPLER**



#### **ENGINE PERFORMANCE**



\*Depending on operating variables

#### **FEATURES**

135 SAE net hp (101 kW) John Deere turbocharged diesel engine

Four-wheel drive

Bucket capacities to 3.0 cu. yd. (2.3 m³)

Operating weights to 30,397 lb. (13 788 kg)

Single phase, single stage torque converter with countershaft, Power Shift transmission, 4 speeds forward, 3 reverse

Power steering. Articulated frame

Four-wheel wet-disk power brakes and parking brake

Inboard planetary final drives

Single-lever or optional two-lever control w/ optional automatic return-to-dig and optional boom height control

Optional front axle hydraulic differential lock or NoSPIN front differential

Optional vandal protection

Manual or optional hydraulic Quik-Tatch™ coupler

Rollover protective structure (ROPS) with canopy. Meets criteria of SAE J394a, SAE J1040 APR88, OSHA 1926.1001, and ISO 3471. Also meets FOPS (falling object protective structure) criteria SAE J231 JAN 81 and ISO 3449.

#### ADD VERSATILITY WITH:

**Forks** 

Material handling arm

Blades

**Multipurpose buckets** 

Side-dump bucket

Snow blowers

Snow plows

Sweepers

Special buckets

## **624E LOADER WITH COUPLER SPECIFICATIONS**

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE Standards. Except where otherwise noted, specifications are based on a machine with all standard equipment, 20.5-25, 12 PR, L2 tires with one rear counterweight, ROPS cab, full fuel tank and 175-lb. (80 kg) operator.

41 hp (105 kW) nt including air cleane ns per SAE J1349 and	DIN 70 020, using	20.5-25, 12 PR, loader tread, L2 20.5-25, 12 PR, rock tread, L3	
.19 x 5 cu. in. (10 	6.5 x 127 mm)	Cooling system Crankcase Crankcase, including filter Transmission case and filters Front differential Rear differential	26 qt. 25 18 qt. 17 20 qt. 19 11 qt. 10 24 qt. 23 17 qt. 16
		Differential, conventional, front and rear	Single-level warnings: Air filter restricted
Single phase	e, single stage	Antifreeze Dry-type air cleaner with dust	Engine coolant temperature Hydraulic filter restricted Low brake pressure Low electrical voltage
Countersha	ft, Power Shift	Fan guard Fuel filter	Low engine oil pressure Low transmission oil pressure
4.8 8.0	km/h (max.) 7.8 12.8	Frames: Articulation transport lock Drawbar	Secondary steering (optional) Indicator only:
25.4	40.9	rear grille Rear bottom guard	Turn signals Floor mat Hand grips
	12.8 25.8	Hydraulic oil cooler Lights:	Horn Instruments: Electric hourmeter
	al	Flashing and turn signal Stop and tail Operator's station:	Fuel gauge Transmission oil temperature gauge Key switch ROPS canopy
ear axle oscillate rel at center of tire	es 26 degrees e).	Cigarette lighter w/ashtray Dual inside rearview mirrors Dual level monitor system: Two level warnings:	Two-inch (51 mm) seat belt w/retractor Reverse warning alarm Transmission clutch disconnect
no hydraulic cylin- line of	ders.  9 in. (5.11 m) in. (491 mm) 15 in. (80 mm) 77 in. (45 mm) oard-mounted, expanding shoe s transmission  riven gear-type 137 kPa) (42.2 valve pressure rimum steering ional two-lever, or fork or multi- pump delivers psi (4137 kPa) si (15 859 kPa) e: 5.8 sec. 1.7 sec. 3.5 sec. 4.3 sec. avating bucket: 50 lb. (5924 kg) lb. (10 845 kg)  Stroke 88 in. (726 mm) 5 in. (603 mm) e-nickel-plated,	Optional or Special Equipment: Buckets: Auxiliary spill guard Bolt-on cutting edges Bucket teeth Differentials: Front axle disconnect Front hydraulic differential lock Front NoSPIN differential Engine: Additional battery Alternator—130 amp Cold weather (ether) starting aid Engine coolant heater Radiator sand shield Water separator, fuel Frames: Auxiliary bottom guards, transmission and front frame Fenders, front or rear Lift hooks License plate bracket Rear counterweights Steps, frame mounted SMV emblem Transmission side frame guards Hydraulics: Two spool valve w/single- lever control Two spool valve w/two-lever control	Three spool valve, single- lever control w/auxiliary control lever for third function Three spool valve, two-lever control w/auxiliary control lever for third function Lights: Front and rear work Loader: Automatic boom height control Automatic return-to-dig Operator's station: Mirrors, outside Radio — AM/FM for cab ROPS cab w/heater- defroster-pressurizer, dome light, front and rear windshield wiper and washer, 90-amp alternator ROPS cab w/air conditioning, heater/ defroster/pressurizer dome light, front and rear windshield wiper and washer, 90-amp alternator Seats: Adjustable deluxe suspension cloth seat w/armrests Adjustable deluxe suspension cloth seat w/armrests for cab Secondary steering Three-inch (76 mm) seat belt w/o retractor
	35 hp (101 kW) 41 hp (105 kW) 41 hc (105 kW) 41 hc (105 kW) 42 hc (105 kg (105 kg) 42 hc (105 kg) 43 hc (105 kg) 44 hc (105 kg) 48 hc (105 kg	35 hp (101 kW)	35 hp (101 kW) 41 hp (105 kW) 41 hp

## 624E LOADER WITH COUPLER OPERATING INFORMATION — BUCKETS

OPERATING INFORMATION	GENERAL PURPOSE BUCKETS			
Capacity, heaped, SAE	2.25 cu. yd.	2.63 cu. yd.	3.00 cu. yd.	
	(1.7 m³)	(2.0 m³)	(2.3 m³)	
Capacity, struck, SAE	1.88 cu. yd.	2.25 cu. yd.	2.63 cu. yd.	
	(1.44 m³)	(1.7 m³)	(2.0 m³)	
Bucket width	100.4 in.	101.8 in.	101.8 in.	
	(2.55 m)	(2.59 m)	(2.59 m)	
Breakout force, SAE J732C	30,768 lb. (136.9 kN) (13 956 kg)	28,038 lb. (124.7 kN) (12 718 kg)	25,697 lb. (114.3 kN) (11 656 kg)	
Tipping load, straight	20,915 lb.	20,042 lb.	19,956 lb.	
	(9487 kg)	(9091 kg)	(9052 kg)	
Tipping load, 40 deg.	17,745 lb.	16,960 lb.	16,874 lb.	
full turn, SAE	(8049 kg)	(7693 kg)	(7654 kg)	
Reach at 45-deg. dump,	58.23 in.	58.7 in.	60.0 in.	
7 ft. (2.13 m) clearance	(1479 mm)	(1491 mm)	(1524 mm)	
Reach at 45-deg. dump full height	34.96 in.	37.0 in.	39.76 in.	
	(888 mm)	(940 mm)	(1010 mm)	
Dump clearance at 45-deg.	115.9 in.	112.8 in.	110.0 in.	
dump, full height	(2945 mm)	(2864 mm)	(2794 mm)	
Overall length	24 ft. 0.8 in.	24 ft. 5.3 in.	24 ft. 9.5 in.	
	(7.34 m)	(7.45 m)	(7.56 m)	
Loader clearance circle bucket in carry position	38 ft. 11.4 in.	39 ft. 3.4 in.	39 ft. 5.9 in.	
	(11.87 m)	(11.97 m)	(12.04 m)	
Operating weight	27,661 lb.	28,025 lb.	28,109 lb.	
	(12 547 kg)	(12 712 kg)	(12 750 kg)	

All information is based on machine with all standard equipment, 20.5-25, 12 PR, L2 tires with one rear counterweight, ROPS cab, full fuel tank and 175-lb. (80 kg) operator. Operating information is affected by tire size, ballast and attachments. For selected items, add or subtract the following:

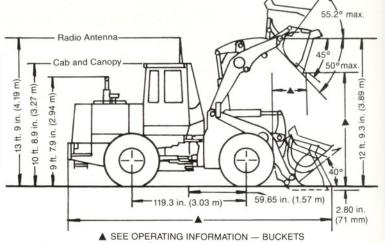
Adjustments to operating weights and tipping loads for 2.63 cu. yd. (2.0 m³) general purpose bucket and 54-in. (1372 mm) pallet fork.

Add (+) or deduct (-) lb. (kg) as indicated for machines with:	Loader Operating Weight	Bucket Straight Full Turn		Fork* Straight Full Turn	
17.5-25, 12 PR, L2 w/o CaCl <sub>2</sub>	– 794 lb.	– 534 lb.	– 461 lb.	– 388 lb.	- 340 lb.
	(360 kg)	(242 kg)	(209 kg)	(176 kg)	(154 kg)
17.5-25, 12 PR, L2 w/CaCl <sub>2</sub>	+ 386 lb.	+ 1054 lb.	+ 911 lb.	+ 761 lb.	+ 655 lb.
	(175 kg)	(478 kg)	(413 kg)	(345 kg)	(297 kg)
17.5-25, 12 PR, L3 w/o CaCl <sub>2</sub>	- 661 lb.	- 443 lb.	- 384 lb.	- 326 lb.	– 284 lb.
	(300 kg)	(201 kg)	(174 kg)	(148 kg)	(129 kg)
17.5-25, 12 PR, L3 w/CaCl <sub>2</sub>	+ 518 lb.	+ 1142 lb.	+ 988 lb.	+ 825 lb.	+ 710 lb.
	(235 kg)	(518 kg)	(448 kg)	(374 kg)	(322 kg)
17.5 R25, One Star, L2 equivalent, w/o CaCl₂	– 414 lg.	– 278 lb.	- 240 lb.	– 205 lb.	– 181 lb.
	(188 kg)	(126 kg)	(109 kg)	(93 kg)	(82 kg)
17.5 R25, One Star, L2 equivalent, w/CaCl <sub>2</sub>	+ 765 lb.	+ 1310 lb.	+ 1131 lb.	+ 944 lb.	+ 814 lb.
	(347 kg)	(594 kg)	(513 kg)	(428 kg)	(369 kg)
20.5-25, 12 PR, L2 w/CaCl <sub>2</sub>	+ 1820 lb.	+ 2452 lb.	+ 2119 lb.	+ 1784 lb.	+ 1537 lb.
	(826 kg)	(1112 kg)	(961 kg)	(809 kg)	(697 kg)
20.5-25, 12 PR, L3 w/o CaCl <sub>2</sub>	+ 291 lb.	+ 196 lb.	+ 170 lb.	+ 143 lb.	+ 121 lb.
	(132 kg)	(89 kg)	(77 kg)	(65 kg)	(55 kg)
20.5-25, 12 PR, L3 w/CaCl <sub>2</sub>	+ 2112 lb.	+ 2646 lb.	+ 2286 lb.	+ 1916 lb.	+ 1653 lb.
	(958 kg)	(1200 kg)	(1037 kg)	(869 kg)	(750 kg)
20.5 R25, One Star, L2 equivalent, w/o CaCl <sub>2</sub>	+ 467 lb.	+ 315 lb.	+ 273 lb.	+ 229 lb.	+ 196 lb.
	(212 kg)	(143 kg)	(124 kg)	(104 kg)	(89 kg)
20.5 R25, One Star, L2 equivalent, w/CaCl <sub>2</sub>	+ 2288 lb.	+ 2765 lb.	+ 2390 lb.	+ 2004 lb.	+ 1728 lb.
	(1038 kg)	(1254 kg)	(1084 kg)	(909 kg)	(784 kg)
ROPS canopy in lieu of ROPS cab	– 320 lb.	– 286 lb.	– 264 lb.	– 223 lb.	– 210 lb.
	(145 kg)	(130 kg)	(120 kg)	(101 kg)	(95 kg)
Deduct one rear counterweight	– 946 lb.	– 2077 lb.	– 1702 lb.	– 1504 lb.	- 1232 lb.
	(429 kg)	(942 kg)	(772 kg)	(682 kg)	(559 kg)
**Add second rear counterweight	+ 935 lb.	+ 2008 lb.	+ 1649 lb.	+ 1453 lb.	+ 1193 lb.
	(424 kg)	(911 kg)	(748 kg)	(659 kg)	(541 kg)

<sup>\*</sup>Allied equipment ordered through John Deere dealer.
\*\*Not to be used with CaCl<sub>2</sub>

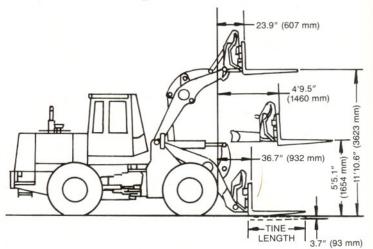
# 624E LOADER WITH COUPLER DIMENSIONS

	TIRES		
Size	17.5-25	20.5-25	
Tread width	78.74 in. (2000 mm)	74.80 in. (1900 mm)	
Width over tires	97.99 in. (2489 mm)	96.93 in. (2462 mm)	
Change in vertical height	- 2.36 in. (60.0 mm)	0	



## **OPERATING INFORMATION — PALLET FORK\***

Tine length	48 in.	54 in.	60 in.
	(1219 mm)	(1372 mm)	(1524 mm)
Ground to top of tine clearance	11 ft. 10.6 in.	11 ft. 10.6 in.	11 ft. 10.6 in.
	(3633 mm)	(3633 mm)	(3633 mm)
Max. reach with fork level	4 ft. 9.5 in.	4 ft. 9.5 in.	4 ft. 9.5 in.
	(1460 mm)	(1460 mm)	(1460 mm)
Overall length	25 ft. 9.8 in.	26 ft. 3.8 in.	26 ft. 9.8 in.
	(7870 mm)	(8022 mm)	(8175 mm)
Tipping load, straight (fork level, load centered on tine)	15,190 lb.	14,760 lb.	14,352 lb.
	(6890 kg)	(6695 kg)	(6510 kg)
Tipping load, 40-deg. full turn (fork level, load centered on tine)	12,893 lb.	12,524 lb.	12,174 lb.
	(5848 kg)	(5681 kg)	(5522 kg)
Operating weight	27,419 lb.	27,461 lb.	27,500 lb.
	(12 427 kg)	(12 456 kg)	(12 474 kg)



# OPERATING INFORMATION — MATERIAL HANDLING ARM $^{\star}$

Boom Position	Retracted	Mid- position	Extended
Operating load	4259 lb.	3344 lb.	2566 lb.
	(1932 kg)	(1517 kg)	(1164 kg)
Tipping load,	10,038 lb.	7886 lb.	5944 lb.
straight	(4553 kg)	(3577 kg)	(2696 kg)
Tipping load,	8516 lb.	6689 lb.	5132 lb.
40-deg. full turn	(3863 kg)	(3034 kg)	(2328 kg)
Operating weight	27,225 lb.	27,225 lb.	27,225 lb.
	(12 349 kg)	(12 349 kg)	(12 349 kg)

<sup>\*</sup>Allied Equipment ordered through John Deere dealer

